

ALEXIS LEONARDO JALOMO

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EDUCATION

University of Illinois at Chicago

Class of 2020

B.S. in Computer Science, College of Engineering

GPA: 3.83

Relevant Coursework: *Databases, Intro to Networking, Systems Programming, Operating Systems, Cloud Computing Objects, Principles of Concurrent Programming, Object-Oriented Languages & Environments, Software Design, Data Structures & Algorithms, and Programming Language Design & Implementation.*

TECHNICAL STRENGTHS

Programming Languages: C, C++, F#, Java, JavaScript, Python, Scala, SQL, Unix.
Software & Tools: Apache Hadoop, Akka Actors, CloudSim Plus, Git, Gradle, GraphQL, JUnit, Maven, MySQL, NodeJS, ReactJS.

FEATURED PROJECTS

Content-Addressable Network — Akka | Scala

GitHub: [CAN](#)

- Implementation of CAN Algorithm via Actor-based computational model. Designed for high-performing cloud-based applications. Functional ability to store and retrieve distributed information.

Distributed Chord — Akka | Scala

GitHub: [DistributedChord](#)

- Implementation of Chord Algorithm via Actor-based computational model. Designed for high-performing cloud-based applications. Functional ability to store and retrieve distributed information.

Big Data Processing — Hadoop | Scala

GitHub: [ScalaHadoop](#)

- Created a distributed program for parallel processing of the DBLP data-set (3GB) which contains XML entries for various publications at many different venues. Implemented with the Map-Reduce model.

GitHub GraphQL Framework — GitHubV4 API | Scala **GitHub:** [GitHubGraphQL](#)

- Created a object-oriented pure functional GraphQL client framework for GitHub. Functional ability to compose and execute external GraphQL commands from Scala client programs.

Cloud Simulations — CloudSim Plus Framework | Java **GitHub:** [CloudSimulations](#)

- Constructed and analyzed three cloud data center simulations. Each with distinct resource provisioning models and indistinct cost for resources.

Design Pattern Generator — IntelliJ Platform | Java

GitHub: [DesignGenerator](#)

- IntelliJ plugin program that generates the skeleton code of supported design patterns, which is packaged and inserted into the user's project. Functional ability to enhance chosen design before insertion.

WORK EXPERIENCE

UIC, Chicago IL

Dec 2019 - May 2020

Computer Science Undergrad Tutor

- Developed students' confidence through attentive instructions in programming and debugging, applying positive reinforcement strategies.
- Reviewed class material with students to guide them to the discovery of correct answers.